CLAIMS

What is claimed is:

1. A double-layer vacuum container including a vacuum space between an inner container and an outer container constituting a metal double-layer container, the double-layer vacuum container comprising:

the inner container having a bridging member extending to the outer container in a bridging manner so as to be supported thereby;

the outer container supporting the bridging member extending from the inner container while the bridging member being externally exposed; and

a cover member for externally covering a portion of the outer container through which the bridging member is exposed and for sealing a space inside the cover member and a space between the inner container and the outer container in a vacuum state, between the cover member and the outer container.

2. The double-layer vacuum container according to claim 1, wherein the outer container supports the bridging member around its axis by a supporting member provided inside the cover member, and the bridging member has a play with the outer container about its axis.

3. The double-layer vacuum container according to claim 2, wherein the inner container and the outer container are bonded at lips thereof and the bridging member extends from a bottom of the inner container so as to be exposed through a bottom of the outer container to be supported thereby.

4. The double-layer vacuum container according to claim 3, wherein a heat conduction inhibition hole is provided in the middle of a heat conduction path of a member constituting the heat conduction path from the inner container to the portion where the outer container is externally exposed.

5. The double-layer vacuum container according to claim 3, wherein the bridging member is supported by three or more convex portions of the support member formed by plate working on a cylindrical wall thereof.

6. The double-layer vacuum container according to claim 5, wherein the support member has a plurality of leg portions formed in a circumferential direction, and is fixed to the outer face of the outer container with the plurality of leg portions.

7. The double-layer vacuum container according to claim 1, wherein the bridging member is fitted into a supporting member

in a screw structure for supporting the bridging member.

8. A double-layer vacuum container comprising:

a double-layer container formed by combination of a metal inner container and a metal outer container so as to have a vacuum space therebetween;

a bridging member extending from the inner container to the outer container in a bridging manner so as to be externally exposed through the outer container to be supported by the outer container; and

a cover member for externally covering a portion of the outer container through which the bridging member is exposed and for sealing a space inside the cover member and a space between the inner container and the outer container in a vacuum state between the cover member and the outer container.

9. A double-layer vacuum container including a vacuum space between an inner container and an outer container constituting a metal double-layer container, the double-layer vacuum container comprising:

the inner container having a bridging member extending to the outer container in a bridging manner so as to be supported thereby;

the outer container supporting the bridging member extending from the inner container through a vibration-

absorbing portion, the bridging member being externally exposed; and

a cover member for externally covering a portion of the outer container through which the bridging member is exposed and for sealing a space inside the cover member and a space between the inner container and the outer container in a vacuum state, between the cover member and the outer container.

10. A double-layer vacuum container including a vacuum space between an inner container and an outer container constituting a metal double-layer container, the double-layer vacuum container comprising:

the inner container having a bridging member extending to the outer container in a bridging manner so as to be supported thereby;

the outer container supporting the bridging member extending from the inner container through a vibration-absorbing portion, the bridging member being externally exposed; and

a cover member for externally covering a portion of the outer container through which the bridging member is exposed, a space inside the cover member being a vacuum space.